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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/730,858	12/09/2003	Wu Feng Qing	P06454US01	3532	
22885	7590 05/18/2006		EXAM	EXAMINER	
MCKEE, VC 801 GRAND	OORHEES & SEASE,	GALL, LI	GALL, LLOYD A		
SUITE 3200				PAPER NUMBER	
DES MOINES	, IA 50309-2721		3676		
			DATE MAILED: 05/18/2004	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

<del></del>		Application No.	Applicant(s)				
Office Action Summary		10/730,858	QING, WU FENG				
		Examiner	Art Unit				
		Lloyd A. Gall	3676				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SH WHIC - Exter efter - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CFI SIX (6) MONTHS from the mailing date of this communication period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by streply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMU R 1.136(a). In no event, however, ma riod will apply and will expire SIX (6) I atute, cause the application to becom	NICATION. y a reply be timely filed  MONTHS from the mailing date of this co e ABANDONED (35 U.S.C. § 133).				
Status							
·	Responsive to communication(s) filed on 1 This action is <b>FINAL</b> . 2b) Since this application is in condition for alloclosed in accordance with the practice und	This action is non-final.  wance except for formal m		e merits is			
Disposition of Claims							
<ul> <li>4)  Claim(s) 1-7,9,10,12-15,30,31 and 34-40 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1-7,9,10,12-15,30,31 and 34-40 is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or election requirement.</li> </ul>							
Application Papers							
9)□ 10)⊠ the Exam	The specification is objected to by the Exan The drawing(s) filed on <u>09 December 2003</u>	and 29 December 2005 is, the drawing(s) be held in abe rection is required if the draw	yance. See 37 CFR 1.85(a). ing(s) is objected to. See 37 CF	FR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB r No(s)/Mail Date	Paper	ew Summary (PTO-413) No(s)/Mail Date of Informal Patent Application (PTC 	)-152)			

## **DETAILED ACTION**

The disclosure is objected to because of the following informalities: In the amended paragraph to page 4, lines 16-21 of the specification, a Brief Description must be provided for Figure 7A.

Appropriate correction is required.

Claim 34 is objected to because of the following informalities: Claim 34 is not clear as to which claim it is intended to depend from, since claim 34 recites a second portion and depends from claim 31, while the first portion is claimed in claim 32.

Appropriate correction is required.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Marin (733) in view of Fann et al (264).

It is first noted that a storm door is not being positively claimed. Marin teaches a lock including side plates 24, 26, a dead bolt 42, 44, a cam 74, 76 having a portion 76 extending into a notch 80 of the dead bolt, and a spring 84 outside the dead bolt and engaging with two notches 86 to bias the dead bolt toward a locked and unlocked position, defining an over-center biasing mechanism. The spring 84 further limits rotation of the cam and includes a through hole as seen in fig. 8. Fann et al teaches a spring 75 in fig. 7 cooperating with first and second converging flat surfaces and an

over-center point to bias the bolt between locked and unlocked positions. It would have been obvious to modify the over-center biasing mechanism of Marin to include converging first and second flat surfaces which converge to define an over-center point to be engaged by a spring, in view of the teaching of Fann et al, the motivation being that the notches 86 of Marin would not need to be formed, and the spring engagement defined by Fann et al would provide a stronger engagement position than that provided by the spring 84/notches 86 teaching of Marin.

Claims 6, 7, 9, 10 and 12-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Marin in view of Fann et al as applied to claim 1 above, and further in view of Kondratuk (162).

It is first noted that even though Kondratuk is drawn to a storm door environment as set forth in column 2, line 43, a storm door is not being positively claimed. Kondratuk teaches a lock for a mortise of a storm door as set forth in column 2, line 43, including side plates 44, 50, to receive a dead bolt 30 and a cam 20 therein, including a through hole in the cam to receive a spindle cooperable with a key cylinder and thumb turn on opposite sides of a storm door as set forth in column 2, lines 64-67, a first notch (recessed area) in the dead bolt between portion 39 and the thickened portion 37 of the bolt as seen in fig. 6, the first notch 64 receiving a cam arm 22 (fig. 8) of the cam, the cam arm 22 including a cam finger 23 which is received in a second notch 62 in the bolt, the second notch 62 having closed ends which prevent the finger 23 from passing into a lockout situation, the cam 20 cooperable with springs 60, wherein edge 34 defines both a stop and a lock indent as seen in fig. 3 and edge 32 defines both a stop and an unlock

indent as seen in fig. 2. The indents 32, 34 are indented with respect to the first notch 64, and are approximately perpendicular to the cam finger 23. The second notch 62 is angular (perpendicular) to the first notch. It would have been obvious to modify the cam arm 76, notch 90 connection of Marin to include a cam arm, cam finger and first and second notches connection, in view of the teaching of Kondratuk, the motivation being to ensure the prevention of a lockout situation between the cam and dead bolt of Marin.

Claims 1-5, 7, 30 and 38-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen et al (839) in view of Marin and Fann et al (264). Chen et al teaches a storm door and a storm door lock body, including a storm door as seen in fig. 10, having opposed faces and an edge 108 with a mortise 102, side plates 44, 45, escutcheons 35, 56, a key cylinder 38, a first spindle 74, a thumb button 52, a cam body 42 with a hole to receive the spindle 74, a cam arm 88 to engage a notch 92 in a dead bolt 46, a live bolt 82, a second spindle 32 and opposed handles 34 to actuate the live bolt 82. Marin teaches a spring outside the dead bolt as set forth above. Fann et al teaches a spring 75 in fig. 7 cooperating with first and second converging flat surfaces and an over-center point to bias the bolt between locked and unlocked positions. It would have been obvious to provide a spring with the dead bolt of Chen et al, outside the dead bolt, in view of the teaching of Marin, the motivation being to bias the dead bolt in its locked and unlocked positions and to aid in defining the stop positions of the cam in its locked and unlocked conditions. It would have been obvious to modify the over-center biasing mechanism of Chen et al as modified by Marin, to include converging first and second flat surfaces which define an over-center point and

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an engaging spring, in view of the teaching of Fann et al, the motivation being that the notches 86 of Marin would not need to be formed, and the spring engagement defined by Fann et al would provide stronger engagement positions than that provided by the spring 84/notches 86 teaching of Marin.

Claims 6, 9, 10, 12-15, 31, 32 and 34-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen et al in view of Marin and Fann et al as applied to claims 1 and 30 above, and further in view of Kondratuk.

Kondratuk has been discussed above. It would have been obvious to modify the cam arm 88 and notch 92 connection of Chen et al to include a cam arm, cam finger and first and second notches connection, in view of the teaching of Kondratuk, the motivation being to prevent a lockout situation and enable the stops 96 of Chen et al to not be required.

Applicant's arguments with respect to claims 1-7, 9, 10, 12-15, 30-32 and 34-40 have been considered but are moot in view of the new ground(s) of rejection.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lloyd A. Gall whose telephone number is 571-272-7056. The examiner can normally be reached on Monday-Friday, 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Glessner can be reached on 571-272-6843. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LG LG-May 15, 2006 Lloyd A. Gall Primary Examiner